

Course Unit Descriptor

<b>Study Programme:</b> Power, Electronic and Telecommunication Engineering (Communications Technologies and Signal Processing)			
<b>Course Unit Title:</b> Digital Image Processing			
<b>Course Unit Code:</b> EK421			
<b>Name of Lecturer(s):</b> Tatjana Lončar Turukalo			
<b>Type and Level of Studies:</b> Bachelor level			
<b>Course Status (compulsory/elective):</b> compulsory			
<b>Semester (winter/summer):</b> summer			
<b>Language of instruction:</b> english			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> face-to-face			
<b>Number of ECTS Allocated:</b> 5			
<b>Prerequisites:</b> Recommended: Algebra/Calculus, Basics of Signal Processing			
<b>Course Aims:</b> Introduction to the basic concepts in the field of digital image processing; introduction to the contemporary methods in digital image processing.			
<b>Learning Outcomes:</b> An overview of principles of contemporary methods for digital image processing. Ability to understand the basic principles and methods used in digital image processing, possibility of independent realization of simple systems for digital image processing, as well as possibility of simple extension of knowledge by working on a specific problem.			
<b>Syllabus:</b> Introduction to digital image processing. Basic concepts in image processing. Image improvement in space domain. Image improvement in frequency domain. Image restoration. Color image processing. Image compression.			
<b>Required Reading:</b> Relevant literature in English TBD			
<b>Weekly Contact Hours:</b> 3	<b>Lectures:</b> 3	<b>Practical work:</b> 0	
<b>Teaching Methods:</b> Lectures; Computer Practice; Consultations.			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Project defense	30	Theoretical part of the exam	70
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			